

### Amendments to the Specification

Please add the following paragraph following line 20 on page 36 of the specification:

Figs. 27-29, 30A-30F, 31A-31B, and 32A-32D illustrate flow electroporation cell assemblies, in accordance with embodiments of the present disclosure.

Please add the following paragraph after line 12 on page 36 of the specification:

Fig. 23A is a scatter plot from a flow cytometry measurement of test platelets.

Please replace the paragraph at lines 13-14 on page 36 of the specification with the following, amended paragraph:

Fig. 23B shows a scatter plot from a flow cytometry measurement of platelets loaded with a marker marker.

Please replace the paragraph at lines 15-16 on page 36 of the specification with the following:

Fig. 24A is a graph showing collagen-stimulated beta-Thromboglobulin release of flow electroporated platelets as compared to controls.

Fig. 24B is a graph showing collage-stimulated Calcein release of flow electroporated platelets as compared to controls.